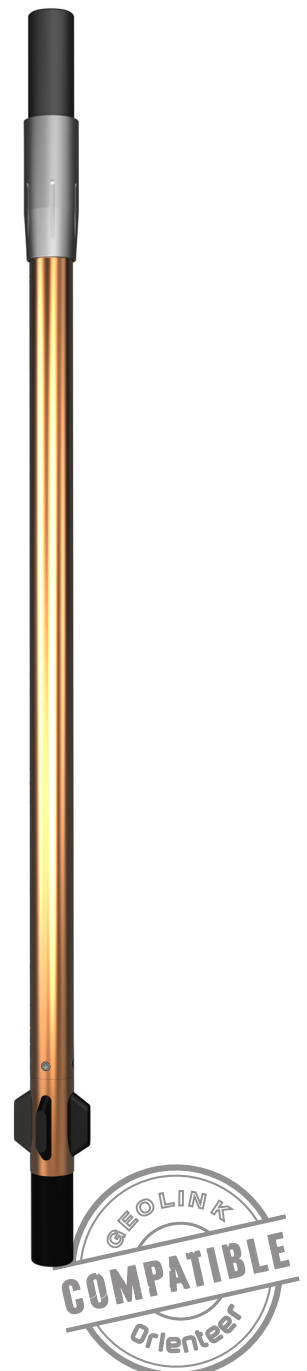


ACTUATOR POWER CONTROLLER (APC)

The Actuator Power Controller (APC) is part of a new generation of advanced modules designed to be compatible with the Negative Pulse MWD System. The module contains highly efficient control electronics for the dual solenoid Negative Pulse Transmitter. Implementation of new technologies and proven methods delivers new features and specifications, coupled with the known robustness and reliability of the Negative Pulse system.

Key features include:

- ▶ Dual Solenoid Transmitter Control
- ▶ 'Active' battery/power saving mode
- ▶ High temperature qualified (175DegC Option)
- ▶ Proven/robust technology
- ▶ Low quiescent power consumption
- ▶ Geolink system compatible
- ▶ Up to 20Kpsi Pressure rating
- ▶ Support for fast data transmission





Description		Value	Units	Comments
Electrical				
Operating Voltage		+/-17V	Volts	Nominal
Solenoid Peak Current		8.0	Amps	Nominal
Solenoid Hold Current		8.5mA	mA	Nominal
Capacitor Bank		6000	uF	per Bank (2 banks/module)
Quiescent Current		<3.0	mA	Idle mode
Mechanical				
Diameter (Housing)	LP	1.895	inches	
		48.13	mm	
	HP	2.000	inches	
		50.80	mm	
Length		40.96	inches	Excluding coupler
		1040.5	mm	
		45.06	inches	Including coupler (make-up)
		1144.5	mm	
Environmental				
Operating Temperature	APC-150	-25 to 150	°C	(see note 1)
		-13 to 302	°F	
	APC-175	-25 to 175	°C	
		-13 to 347	°F	
Survival Temperature	APC-150	-40 to 165	°C	
		-40 to 329	°F	
	APC-175	-40 to 185	°C	
		-40 to 365	°F	
Hydrostatic Pressure	Low Pressure	15,000	psi	Maximum (1.895" Hsg)
		103.4	MPa	
	High Pressure	20,000	psi	Maximum (2.000" Hsg)
		137.9	MPa	
Vibration		30	g pk	50 – 1000Hz
		20	g rms	50 – 1000Hz
Shock		1000	g	0.5mS Half Sine
Notes: 1. 175°C option available				

Contact us

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Product Support

Azimuth Oilfield Systems Ltd. provides a responsive repair, calibration and product support service. Experienced personnel are available to troubleshoot or repair equipment, and provide general product technical assistance. If you need effective sensor support for your business, then contact support@azimuthmwd.com for more information.

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